Computing and Telecommunications Architecture Standards – Building Wiring

Adopted by the Information Services Board (ISB) on December 29, 2000
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Also see: 100-P1, 700-P1, 702-S1, 703-G1, 704-S1

Definitions

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Introduction

These standards supercede and replace all previous standards relating to wiring and cabling for computing and telecommunications. The Department of Information Services (DIS) has acquired American National Standards Institute (ANSI) approved standards prepared by the Electronic Industries Alliance (EIA); the Telecommunications Industry Association (TIA) and one standard prepared by the TIA and EIA in collaboration with Telecommunication Service Bulletins (TSB).

Statutory Authority

The provisions of RCW 43.105.041 detail the powers and duties of the ISB, including the authority to develop statewide or interagency information services and technical policies, standards, and procedures.

Scope

These standards apply to all executive and judicial branch agencies and educational institutions, as provided by law, that operate, manage, or use IT services or equipment to support critical state business functions.

Exemptions

None.

Standards

The following ANSI approved documents define the practices appropriate for state agencies to follow. These standards do not conflict with agency variances, but do set a baseline that must be adhered to when communication and telecommunication projects are undertaken. Agencies should document their variances and advise their DIS Senior Technology Management Consultant.

Here are the ANSI approved standards:

Standard Number	Topic/Scope
TIA/EIA-568A	Commercial Building Telecommunications Wiring Standard
569A	Commercial Building Standard for telecommunications Pathways and Services
TIA/EIA-570A	Residential and Light Commercial Telecommunications Wiring (Cabling per Global) Standard
TIA/EIA-598	Optical Fiber Cable Color Coding
TIA/EIA-606	Administration Standard for Telecommunications Infrastructure of Commercial Buildings
TIA/EIA-607	Commercial Building Grounding and Bonding Requirements for Telecommunications
TIA/EIA-758	Customer-owned Outside Plant Telecommunications Cabling Standard
TIA/EIA TSB 67	Transmission Performance Specifications for Field Testing of unshielded twisted-pair Cabling Systems
TIA/EIA TSB 72	Centralized Optical Cabling Guidelines
TIA/EIA TSB 75	Additional Horizontal Cabling Practices Open Offices
TIA/EIA TSB 95	Additional Transmission Performance Guidelines for 4-pair 100 Ohm Category 5 Cabling
FIPS PUB 175	Federal Building Standards for Telecommunications Wiring Std.
FIPS PUB 176	Residential and Light Commercial Telecommunications Wiring Std.
TIA/EIA 594	Private Digital Network Synchronization (ANSI/TIA/594-91)(R99)
TIA/EIA 596	Network Channel Terminating Equipment for Switched Digital Devices
TIA/EIA/TSB 81	Comparison of PBX Transmission Requirements in Standards- ANSI/TIA/EIA 464-B & ETSI ETS 300 439
TIA/EIA/TSB 31-B	Part 68 Rationale and Measurement Guidelines

Agencies may acquire copies of the standards by subscription with Global Engineering at 1-800-854-7179. Updates are automatically sent to the subscribing agency.

Maintenance

Technological advances and changes in the business requirements of agencies will necessitate periodic revisions to policies, standards, and guidelines. The Department of Information Services is responsible for routine maintenance of these to keep them current. Major policy changes will require the approval of the ISB.